

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094655 A2

- (51) International Patent Classification⁷: **C12Q**
- (21) International Application Number:
PCT/US2004/000819
- (22) International Filing Date: 14 January 2004 (14.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PCT/US03/11393 11 April 2003 (11.04.2003) **US**
- (71) Applicant (for all designated States except US):
TRUSTEES OF BOSTON UNIVERSITY [US/US];
One Sherborn Street, Boston, MA 02215 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GILCHREST, Bar-**
bara, A. [US/US]; 67 Walnut Place, Brookline, MA 02146
(US). **ELLER, Mark [US/US];** 49 Warren Avenue, No. 4,
Boston, MA 02116 (US).
- (74) Agents: **CLOUGH, David, W. et al.;** Howrey Simon
Arnold & White, LLP, Box 34, 1299 Pennsylvania Avenue,
N.W., Washington, D.C. 20004-2402 (US).
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.
- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished
upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MODULATION OF TELOMERE-INITIATED CELL SIGNALING

(57) Abstract: The use of modulators of Mre 11, tankyrase, the DNA damage pathway and MRN complex formation of the protec-
tion of mammals from failure of growth arrest, apoptosis or proliferative senescence.